

FOLIO

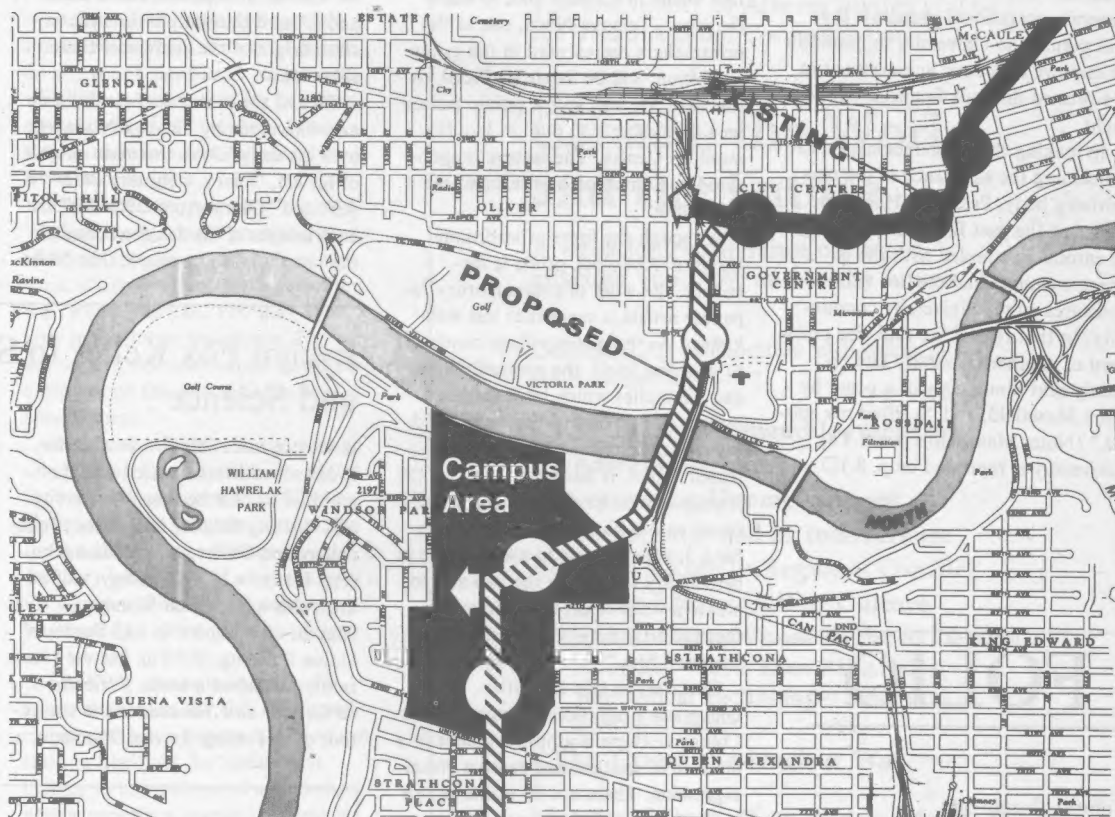
Mayor Supplies Senate With SLRT Picture

His Worship Mayor Laurence Decore, Alderman Lance White (an Engineering graduate of this University), and Bob David, Manager of the City's Transportation Department, were guests of the Senate at its most recent meeting on Friday, 15 February. The delegation spoke at length about the advent of Light Rail Transit to campus and responded to questions and comments.

LRT, Mr. Decore said, was installed in 1978, largely on the strength of two arguments: that access to northeast Edmonton, in particular Commonwealth Stadium and Northlands Coliseum, would be easily gained and that high density development along the route and near the various stations would occur. The latter has not materialized and must be re-examined, the Mayor said.

Edmonton's transit system, that is, LRT and buses, has the highest usage per capita of any city in North America. Unfortunately, Mr. Decore noted, the system is running a deficit of \$50 million a year.

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- Entrepreneur Issues Clarion Call to Scientists
- Exhibition of Contemporary Japanese Prints Makes National Debut at Ring House Gallery
- Margarit Eichler, Clare Gunn, David Hubel and Bruce Kidd to Visit
- Graduate Students' Research Symposium Program
- March Calendar
- Boreal Institute Survey 'Bloody' Good

University of Alberta

Joint Subcommittee of ADC, PPC Struck

President Horowitz has announced the establishment of a joint subcommittee of the Academic Development and Planning and Priorities Committees to advise him and the University. The committee includes, in addition to ADC and PPC appointees, membership from other broadly representative groups on campus:

Chairman: J.P. Meekison, Vice-President (Academic).
ADC: E.J. Chambers, Department of Marketing and Economic Analysis;

M.V. Dimić, Department of Comparative Literature; A.S. French, Department of Physiology; L.P. Milligan, Department of Animal Science.

PPC: R.J. Crawford, Department of Chemistry; G. Genosko, Graduate Students' Association; C.R. James, Department of Electrical Engineering; B.L. Scarfe, Department of Economics.

Deans' Council: D. Badir, Faculty of Home Economics.

Chairmen's Council: R.G. Ironside,

Department of Geography.

Administrative Council: P.A. Watts, Associate Vice-President (Finance and Administration).

Non-Academic Staff: B. O'Neill, Department of Design and Construction.

Commenting on the role of the Joint ADC/PPC Subcommittee, President Horowitz said that in essence its major operating guideline will be to combine academic and budgetary

Continued on page two

28 February 1985

planning and decision-making. The University's financial situation requires new approaches to budgeting and budgetary policy. Moreover, he said, this particular linkage between ADC and PPC will serve to round out the activities of PACCR and Planning Groups I-IV, and also the planning which is going on at Faculty and Departmental levels.

President Horowitz also emphasized that the Joint ADC/PPC Subcommittee's terms of reference are proactive rather than reactive: The Subcommittee will recommend academic and budgetary priorities and generate operational proposals that will permit the University to maintain or improve academic achievement in the present difficult financial environment.

In making this announcement and welcoming the assistance of the new advisory body, President Horowitz said that the past few years the surge in enrolment coupled with the economic climate had created enormous pressures on the University community. In that regard, he said, the president of another university had recently sent him a copy of a poem by John Masefield, and "it lifted my spirits." (Note: Masefield's poem *The University* is reprinted on p. 8.)□

FOLIO

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Exhibition of Contemporary Japanese Prints a Coup for Ring House Gallery

An international touring show, "Contemporary Japanese Prints: 1950-1983," organized by the Japan Foundation of Tokyo and circulated by the International Programme of National Museums Canada, opens officially at 8 p.m., 28 February, at the Ring House Gallery.

Edmonton has been chosen as the first venue in Canada and, to mark the event, Tetsuya Noda, one of the printmakers represented in the group exhibition, will be Japan's official visitor here. He will give a public lecture on 1 March at 3:30 p.m. in L-1 Humanities Centre. The lecture is sponsored in Edmonton by the Japanese Consulate.

Although the fame of traditional Ukiyo-e woodblock prints is legendary, the work of contemporary Japanese artists is somewhat less well-known. As the global village continues to manifest itself, the contradictions and anomalies which have made an impact upon many of the world's oldest civilizations have also deeply affected Japan. It has been said that the impact of western culture upon traditional values has made it mandatory for a Japanese artist to use strength of personality to "bridge the gap and to create a work of art that can synthesize the variety of elements which surround him."*

Certainly in this exhibition, says University Collections Director Helen Collinson, there is ample evidence of a mixture of western and eastern visual expression. There are 80 prints in this exhibition and 41 Japanese artists are represented. Although the works span more than 30 years, only 13 of the 80 pieces pre-date 1970. Of these, three woodcuts by Sumio Kawakami are titled "Western Manner", "Young Envoys to Europe", and "Treasures from a Western Ship". The titles underline commentary on cultural differences. The Japanese woodblock technique is virtually intact while the content deals with a recognition and clash of dissimilar cultures. Kiyoshi Hasegawa's beautiful etching, "A Rose and Letter" (1959), refers to Paris and combines, most eloquently, spatial understatement while stressing the affinity for elegance possessed by both the French and Japanese sensi-

bility. Toyoshige Watanabee's organic color pieces, "White and Orange in Purple" (1978), and "White in Green" (1978), seem to share a common origin with American artists who derive their imagery from comic books and the pop culture. On the other hand, Ikko Tanaka's colorful imagery, while related to those above, refers directly to "Colourful Japanese Kana Letter A and C" and thus emphasizes the eastern origin of the content of these silkscreens.

Two of the pieces in the exhibition are silkscreens by Tetsuya Noda who uses his daily life as the main subject of his art. "Diary, February 26th '79 (b)" and "Diary, April 27th '80" are both images of his daughter, one of the most important people that Noda

documents. In these two prints she is seen with her security blanket. In one image she peeps tentatively over the blanket and in the other she hides herself completely. Tetsuya Noda has referred to "outside space incorporated into integral space" as exemplified by Japanese gardens and the simplicity of Haiku. Perhaps viewing this work we will be able to reflect upon this remark as it might be applied to the visual expression of the Japanese printmakers in this exhibition.□

*From *The World of Tetsuya Noda: A Printmaker's Diary* by Prina Rosenberg. Published by the Tikotin Museum of Japanese Art, 1984.

Evelyn Fox Keller to Speak on Gender and Science

Is science male? Evelyn Fox Keller, Professor of Mathematics and Humanities at Northeastern University and Visiting Scholar in Science, Technology and Society at the Massachusetts Institute of Technology, will address this question on Monday, 4 March, at 7:30 p.m. in 142 Students' Union Building. Dr. Fox has very recently published a book, *Reflections on Gender and Science*, and is the author of *A Feeling for the Organism*, a

biography of Nobel prizewinner Barbara McLintock.

The visit of Dr. Fox Keller is sponsored by the UAYs (University of Alberta Women in Science and Engineering) and by WISEST (the University's Task Force on Women in Scholarship, Engineering, Science and Technology). All interested persons are most welcome to attend the meeting.□

Selection Committees for Deans

The Nominating Committee is seeking nominations for one faculty member elected by GFC from a Faculty other than the one concerned for Selection Committees for Deans of the following Faculties:

Home Economics, Law, Pharmacy and Pharmaceutical Sciences, Physical Education and Recreation, and Science.

A second faculty member elected by GFC from any Faculty of the University, including the one concerned, for the Selection Committees for the Deans of Science and Physical Education and Recreation.

Would those who have suggestions for nominations for any of the above Selection Committees, or who are interested in serving themselves, please contact Mrs. Plaskitt, 2-5 University Hall, 432-4715. It would be appreciated if a brief vita could accompany any nomination.

A Clarion Call to Scientists With Imagination

An entrepreneur was on campus last week to make an astounding offer to scientists: "What would you like to do that you are not doing now? Tell us. And if we like what we hear, we'll fund the research."

Don Braben of British Petroleum's Venture Research Unit delivered that message to a group of assorted scientists in the Council Chamber last week in the course of a "random walk" through university campuses, looking for innovative thinkers with ideas for fundamental research.

What Dr. Braben is searching for are today's equivalents of the great scientific breakthroughs of the past—penicillin, the jet engine, nuclear power, "the fantastic things of tomorrow."

The people he is interested in are "explorers": those whose creative minds leave the beaten track to explore uncharted paths—that just might lead to the Blue Skies beyond the horizon.

"So, don't think of *evolution*. Think of curiosity-driven *revolution*," he advised. "Abandon the disciplinary approach. And, provided the research has a chance of developing into an application that leads to major industrial innovation, you can do anything you like."

The Venture Research Unit was set up by BP some five years ago, with Braben at its head. Its objective is to support fundamental research in the natural or synthetic sciences, with the proviso that the research be aimed at "fostering understanding". Research can be in any field, but must have a broadly formulated conceptual

approach which may be expected to have diverging (as opposed to converging) prospects. At least one of these prospects might be expected to have substantial industrial relevance within a decade or so.

"However," adds Dr. Braben encouragingly, "we are not centrally directed and individuals or small teams are backed for their potential to innovate."

The research must be original and must represent a point of departure for the researchers. It may be based on a new and significant observation which is not understood, or on a new approach to an old problem. It may also come from a new collaboration or from fresh insights.

"Tenure is not necessary," he says, "and we are making a positive attempt to search for young people. You can work where you like and collaborate with whom you like. You may apply your ingenuity as you please. There are no artificial constraints on the discipline or on the way the scheme is administered."

It is the novel, unconstrained holistic approach that interests Dr. Braben. Do not think even in terms of 'multi-disciplinary', he suggests. Rather, become *adisciplinary*, *without* disciplinary boundaries of any kind. It is the element of novelty, of newness and freshness that will dispose him favourably toward an idea.

The VRU currently supports 27 teams working in the U.K., U.S. and Europe, with one project in Canada. A team in Sheffield, for instance, is looking at how to control and exploit photosynthesis; a couple of people in London are investigating the way fluids flow through deformable porous organic materials like those found in living systems; and another pair in Holland are working on ways of identifying and dealing with unnecessary complexity in engineering, especially computing.

The largest funding for a project so far has been \$300,000 over three years, and the smallest amount was \$10,000. The length of support depends on the type of research but it is usually considered that three years is too short to know where the research is going.

Scientists with creative approaches

and new ideas may like to get in touch with Dr. Braben to discuss his interest in a novel project. Write (a brief note is all that's necessary initially) or call Dr. Don Braben, Head of Venture Research Unit, BP International Limited, Britannic House, Moor Lane,

London EC2Y 9BU, telephone: 01-920-8123.

Bob Armit, Director of Research Services, 432-5360, has a one-page description of the VRU program that he will make available to anyone interested. □

The University of Alberta invites you to the Third Annual Conference on

Canada, the World and the Future

A week-long conference on issues affecting you, now and in the future.

Outstanding authorities will address such issues as:

- **The Impact of Unemployment and Underemployment**
- **Overcoming Unemployment**
- **International Aid or Interference**
- **Canada's Role in Regional Conflict**
- **Popular Music: Cult or Culture**
- **Right to Life – Whose Right to Decide**
Abortion: Views from All Around
Biomedical Technology: Ethic of a Caring Society
- **The Threat of a Nuclear War**

Monday, March 11, to Friday, March 15

Daily sessions: 2 to 4:30 p.m.
7:30 to 10 p.m.

Bernard Snell Hall
2nd Floor, Mackenzie Health Sciences Centre
University of Alberta Hospitals

Open to University Staff,
Students and the General Public
Free Admission

For information, contact
Office of Community Relations,
432-2325



Call for Books

Bruce Bain, Educational Psychology, advises that the Shanghai Foreign Languages Institute needs books. If you have extra copies of books, in any subject or topic area, in any language, please send them along to Dr. Bain. The volumes will be appreciated and put to good use. If you have a large quantity, telephone Dr. Bain at 432-3693 and he will pick them up. □

New Home for Women's Program Celebrated Next Week

Friday, 8 March, will be a momentous day in the life of the Faculty of Extension's Women's Program. The official opening of the Women's Program and Resource Centre will bring to fruition several years of energy devoted to establishing a central location with sufficient space from which it can operate and offer the variety of services for which there is an expressed need.

The Centre, located at 11019 90 Avenue, will conduct an open house from 2 to 6 p.m., and official ceremonies will begin at 5 p.m. with President Horowitz and Distinguished Visiting Professor, Margrit Eichler, as special guests. Members of the University and the surrounding communities are invited to attend the event which coincides with International Women's Day.

The Women's Program was formed in 1981 and, thanks to the coordinating efforts of Sandy Susut, has established itself as an invaluable

resource and reference to area women. The aim of the program is to provide women and others in the community with a program which will increase awareness of the position of women in society and provide women with opportunities and means for improving that position, both individually and collectively.

So far, 150 courses, workshops, public forums and major conferences have been offered to more than 4,600 people, largely women. The program has maintained an active liaison with women's groups and has been instrumental in organizing provincial conferences with women on pension reform, the charter of rights and freedoms and violence against women. In addition, the program has been called upon to provide informal counselling and referral to women seeking information on services, resources and issues of concern to women, as well as to act as a public advocate on

women's issues. The Women's Resource Centre has been developed to formalize these activities.

The Centre currently contains some 8,500 documents, publications, books, etc. and an application has been made for funding to computerize this database and to link with other existing data-bases of relevance to women throughout North America. The Women's Program is currently on contract to the Canadian Research Institute for the Advancement of Women to produce *Canadian Women's Periodicals: KWIC Index*. Research activities are also conducted and one such project—"The Needs of Immigrant Women in Edmonton"—resulted in

the creation of a Centre for Immigrant Women.

It has been necessary for the Women's Program to obtain outside funding for many of its activities and to date approximately \$300,000 has been received from a variety of sources. The acquisition of the house in North Garneau was made possible by the following grants: \$9,000 for resource materials, feminist art and a sign from the University Community Special Projects Fund; \$20,000 from the University for renovations; and \$8,100 plus \$6,840 matching grant for furnishings from the Alma Mater Fund. □

Replenishment of GFC Standing Committees 1985

The terms of office of a number of members of GFC standing committees and bodies with membership elected by GFC will expire in June 1985. During the coming weeks, the Nominating Committee will be selecting nominees for the replacement of these members, and of those members whose terms of office will be interrupted by study leave during 1985-86. Vacancies will occur on the following:

GFC Executive Committee (nominees must be members of GFC)
Academic Appeals Committee (regular and alternate members)
Academic Development Committee
Conference Funds Committee
Computing Committee
Campus Law Review Committee
Facilities Development Committee
Library Committee
Committee on Native Studies
Planning and Priorities Committee
Committee for the Improvement of Teaching and Learning
Undergraduate Scholarship Committee
University Professors Selection Committee
Faculty Tenure Committee Panels
Universities Co-ordinating Council (vacancy for one Dean)
The Senate (nominee must be a member of GFC)
University Disciplinary Panel

All full- and part-time members of the academic staff as well as graduate and undergraduate students of the University are eligible for election to the above committees. Membership is not restricted to members of GFC unless specified. The terms of office for staff members are for periods of up to three years commencing 1 July 1985.

The Nominating Committee will be pleased to hear from staff members and students who have suggestions for nominations or who would be interested in serving on the above committees. Those people are asked to communicate with Mrs. P. Plaskitt, Secretary to the Nominating Committee, 2-5 University Hall, 432-4715, who will be pleased to provide any further information.

Distinguished Visitor for Women's Program

Margrit Eichler, one of Canada's foremost feminist scholars, will visit the Women's Program as a Distinguished Visitor next week to speak at two public forums and a workshop.

On Friday, 8 March, in the first forum, "Women's Paid and Unpaid Work and Equality in Employment", Dr. Eichler will examine the interconnection between women's paid and unpaid work. She will also discuss the recommendations of the Report of The Royal Commission of Inquiry on Equality in Employment (1984), sometimes called the Abella Commission.

The subject of the forum on Friday, 15 March, is "The Anti-Family Effect of Familism on Social Policy". In this session Dr. Eichler will examine the rhetoric of the "pro-family" movement and its anti-family implications for social policies and Canadian families.

The forums, which are free, will run from 7.30 to 9.30 p.m. on both days in 2-115 Education North. Registration is not necessary.

Dr. Eichler will also conduct a one-day "Workshop on Non-Sexist Re-

search" on Wednesday, 13 March, 9 a.m. to 4 p.m., 120 Corbett Hall.

How to recognize and avoid sexism in research is the theme of this workshop, which will focus on recognizing and avoiding sexism in language, concepts, analysis and interpretation of data, research design and methods and policy recommendations.

Registration is \$25 (which includes lunch) and is limited to 30.

The author of four books, including *The Double Standard: A Feminist Critique of Feminist Social Science* and *Canadian Families Today: Recent Changes and Their Policy Consequences*, Dr. Eichler was a consultant to the Canadian Advisory Council on the Status of Women on their submission to the MacDonald Commission. She was also a member of a team that conducted a training session for the Research Directors of the Commission on how to do their research in a non-sexist manner.

Dr. Eichler is currently Professor and Chair of the Department of Sociology in Education at the Ontario Institute for Studies in Education. □

Nobel Prizewinner to Speak at 'Universe and Man' Series

David Hubel, neurobiologist at Harvard Medical School and Nobel prizewinner, is AHFMR guest speaker for the Special University Lecture in the series "The Universe and Man" sponsored by the Vice-President (Research). Dr. Hubel will speak on "Eye, Brain and Perception" on Monday, 11 March, at 5 p.m. in B-1 HM Tory Building, and his lecture is open to the public.

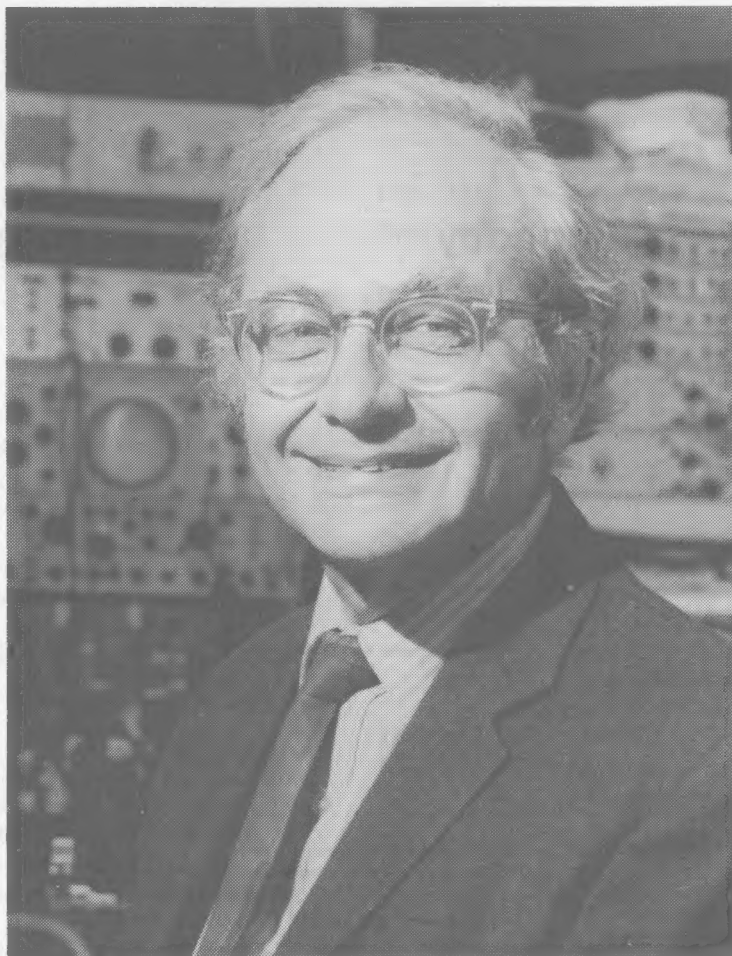
Faculty and students will have another opportunity to hear Dr. Hubel in an informal lecture, "Color and stereoscopic mechanisms in area 18 of the primate", to be given on 12 March at 4 p.m. in the Conference Centre, CW-410 Biological Sciences Building. *McGill Grad*

A graduate of McGill in Mathematics and physics (Honors) in 1947, Dr. Hubel obtained an MD from McGill Medical School in 1951. During summers spent at the Montreal Neurological Institute "doing electronics", he became fascinated by the nervous system and in 1954 went to Johns Hopkins Hospital to study neurology. His interest in research was aroused when, drafted almost immediately into the U.S. army as a doctor, he was assigned to the Walter Reed Army Institute of Research, Neuropsychiatry Division, under David Rioch. There his main project was a comparison of the spontaneous firing of single cortical cells in sleeping and waking cats.

In 1958, he moved to the Wilmer Institute, Johns Hopkins Hospital; one year later—with the entire laboratory staff—Dr. Hubel moved to Harvard Medical School, as part of the Department of Pharmacology. Five years later, in a move unprecedented for Harvard, this became the new Department of Neurobiology.

In 1981, Dr. Hubel received the Nobel Prize in Medicine for his physiological discoveries about how the vertebrate brain codes spatial information.

Currently, Dr. Hubel is John Franklin Enders University Professor in the Department of Neurobiology at Harvard. He is a Senior Fellow, Harvard Society of Fellows, and a member of the Board of Syndics, Harvard University Press. □



David H. Hubel

Tourism Expert to Deliver Guest Lectures

Clare A. Gunn, internationally recognized author and lecturer in the area of tourism, will visit the University from 11 to 22 March as a guest of the Department of Recreation and Leisure Studies.

Dr. Gunn is currently a Professor in the Department of Recreation and Parks at Texas A&M University where is primarily responsible for the development of the program in the study of tourism. He received his baccalaureate and master's degrees from Michigan State University and attended the University of Michigan where he obtained his doctorate in landscape architecture. Dr. Gunn has taught at a number of American universities, including Oregon State, the

University of Hawaii and the University of Massachusetts. He also spent a year at the University of Guelph's School of Landscape Architecture.

Visitors are welcome to attend Dr. Gunn's lectures. Three thought to be of particular interest are: "Tourism: The New Wave" (13 March, 5 to 6 p.m.), "Tourism Development and Small Cities" (19 March, 9:30 to 10:50 a.m.), and "Tourism as a Commercial Venture: Does the University Have a Role?" (19 March, 4:30 to 6 p.m.). All lectures will take place in PE E120. General enquiries about Dr. Gunn's schedule and availability should be made to Linda Prud'homme, 432-5171, or Lou Lanier, 432-2759. □

THE UNIVERSITY

There are few earthly things more beautiful than a University.

It is a place where those who hate ignorance may strive to know, where those who perceive truth may strive to make others see; where seekers and learners alike, banded together in the search for knowledge, will honor thought in all its finer ways, will welcome thinkers in distress or in exile, will uphold ever the dignity of thought and learning and will exact standards in these things. They give to the young in their impressionable years, the bond of a lofty purpose shared, of a great corporate life whose links will not be loosed until they die.

They give young people that close companionship for which youth longs, and that chance of the endless discussion of the themes which are endless, without which youth would seem a waste of time.

There are few earthly things more splendid than a University.

In these days of broken frontiers and collapsing values, when the dams are down and the floods are making misery, when every future looks somewhat grim and every ancient foothold has become something of a quagmire, wherever a University stands, it stands and shines: wherever it exists, the free minds of man, urged on to full and fair inquiry, may still bring wisdom into human affairs.

The University was written by John Masfield and presented at the University of Sheffield Convocation, 25 June 1946.

March

1985

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31																													

sunday	monday	tuesday	wedne
3	4 <ul style="list-style-type: none">■ Until 6 March, Graduate Students' Research Symposium■ GFC Executive■ Edmund Kemper Broadus Lecture	5	6
10	11 <ul style="list-style-type: none">■ Until 15 March, Third Annual Canada, the World and the Future Conference	12	13
17	18 <ul style="list-style-type: none">■ GFC Executive	19	20
24	25 <ul style="list-style-type: none">■ GFC	26	27
31			

Graduate Students' Research Symposium

March 4-6, 1985

Papers and Poster Titles

Theme 1 Medical, Health and Biological Sciences

March 4

Paper Time

Department

0910-0935

Radiology and Diagnostic Imaging

Paper

J. Allalunis-Turner, *Radiobiological characterization of two populations of bone marrow cells*

Posters

- 1 A.F. Fuciarelli, *An immunochemical approach to the molecular radiobiology of nucleic acids*
- 2 D.J. Van Os-Corby, *Oxygen dependency of ¹⁴C-misonidazole binding to mouse liver in vivo and in vitro*

0935-1000

Medicine

Paper

M. Keelan, *Intestinal morphology, marker enzymes and lipid content of brush border membranes from rabbit jejunum: effect of aging*

Posters

- 3 M. Mathew, *Donor specific unresponsiveness by kidney transplant patients using cell mediated lympholysis*
- 4 K.M. Hargreaves, *Influence of dietary fat on plasma membrane structure and lipid-dependent enzyme function*
- 5 C. Field, *Influence of diet on the composition of structural and stored lipids in human adipose tissue*

Medical Microbiology

Poster

- 6 P. Trytten, *Measles virus persistence in cell culture*

1000-1025

Biochemistry

Paper

B. Lemire, *Cloning and expression of genes involved in anaerobic electron transport in E. coli*

Posters

- 7 M. Fujinaga and R. Read, *The importance of flexibility in protein-protein recognition*
- 8 C. Lobe, *Molecular genetic studies on T cells*

1025-1050

Physical Education and Sport Studies

Paper

J. Gilchrist, *Protein composition of sarcoplasmic reticulum following a prolonged exhaustive run*

1050-1100

COFFEE

1100-1125

Anatomy

Paper

J. Toma, *Effects of the pineal gland on the prostate of the Syrian hamster*

Posters

- 9 S.J. Higgin, *Vertebral formation in chick-quail chimerae*
- 10 J. Tabor, *Mucus production in bypassed colonic epithelium*

1125-1150

Pharmacy

Paper

V. Goel, *Role of pulmonary vagal afferents in regulation of bronchomotor tone in guinea pigs*

Posters

- 11 J. Samuel, *Evaluation of ¹³¹I and ¹²³I labelled iodovinyldeoxyuridine in herpes encephalitis animal models*
- 12 R. Keashly, *Brain levels and behavioral effects of an α -fluoromethylated analogue of 2-phenylethylamine*

1150-1215

Dentistry

Paper

N. Winterbottom, *The protein core of protoeodermatan sulphate*

1215-1240

Genetics

Paper

C. Spencer, *Genetic regulation of the Dopa decarboxylase gene in Drosophila*

Posters

- 13 K. Kerby, *Protein studies to determine the origin of durum and common wheat*
- 14 E. Lemire, *Polymorphism in the extranuclear mutant, [mi-3], of Neurospora crassa*



1240-1400	LUNCH BREAK
1405-1430	Nursing
Paper	B. Stevens, <i>The effectiveness of patient education follow-up by telephone on knowledge of post-myocardial infarction patients as a basis for long-term lifestyle readjustment</i>
Posters	15 I. Campbell, <i>Postpartum sleep patterns of mother-infant dyads and the influence of sleep patterns on mother-infant interactions</i>
	16 B. Magee, <i>Accidental poisoning of children in the 1-4 age group: an exploratory study</i>
1430-1455	Health Services Administration and Community Medicine
Paper	L.J. Youell, <i>Major ethical problems faced by nursing administrators</i>
Poster	17 J. Besner, <i>Costing nursing services by complexity adjusted diagnostic related groups</i>
1455-1520	Zoology
Paper	S. Arkett, <i>Evolution of nervous systems - the jellyfish brain</i>
Posters	18 S. McEuen, <i>Reproductive patterns among holothuroids (sea cucumbers)</i>
	19 P. Lindsay, <i>GABA effects on salivary secretion in ixodid ticks</i>
1520-1530	COFFEE
1530-1555	Animal Science
Paper	B. Kirkpatrick, <i>Maximizing efficiency of cattle production</i>
Posters	20 J. Aalhus, <i>The effect of exercise on muscle growth and development in sheep</i>
	21 J. Brennan, <i>Osteochondrosis in swine</i>
1555-1620	Entomology
Paper	B. Anderson, <i>Studies in weevil diversity: why are there so many species?</i>
Posters	22 D. Wrubleski, <i>Aquatic macroinvertebrate responses to marsh management, with particular reference to the Chironomidae (Diptera)</i>
	23 J. O'Hara, <i>Illustration and discussion of two bilateral gynandromorphs on the Calyptratae (Diptera)</i>

Theme II Humanities, Fine Arts and Social Sciences

March 5

Paper Time

Department

0910-0935

Educational Psychology

Paper

K. Marfo, *A comparative study of mothers' interactions with mentally handicapped and nonhandicapped children: issues in design and analysis*

Poster

1 H. Mueller, *WISC-R profiles of exceptional children: a meta-analysis of the current data*

0935-1000

Elementary Education

Paper

A. Brailsford, *Early reading experiences: the literacy development of kindergarten children viewed from a cultural perspective*



1000-1025

Educational Foundations

Paper

V. Thakur, *Dependency and underdevelopment*

Posters

2 E. Buder, *Prosodic coherence in conversation*

2A J. Pecover, *Music and the education of the emotions*

1025-1050

Psychology

Paper

J. Pullyblank, *Developmental invariance in the effects of functional self-knowledge on memory*

Poster

3 J.A. LeFevre, *The use of example and instruction information on a simple inductive-reasoning task*

1050-1100

COFFEE

- 1100-1125 Rural Economy**
 Paper S. Larrick, *Towards a sustainable agriculture: a rural sociological perspective*
 Posters 4 S. McKinnon, *Evaluation of fish and wildlife resources*
 5 L. Ellis, *Human resource development through adult education: implications for Métis self-government*

- 1125-1150 Recreation and Leisure Studies**
 Paper S. Markham, *Urban reform and civic boosterism in recreation and parks history*
 Posters 6 M.J. Cox, *Motivations and socio-demographic characteristics of trail volunteers*
 7 J. Taylor, *Leisure involvement and life satisfaction of the unemployed*

- Physical Education and Sport Studies**
 Posters 8 S. Gordon, *Coaching effectiveness related to athletic preferences for coaching behavior and decision styles*
 9 D. Cunningham, *A reorientation of organizational paradigms in voluntary sport organizations*

- 1150-1215 Home Economics**
 Paper P. Shand, *Descriptive sensory assessment of beef*
 Posters 10 J. Poon, *Work experience and family cohesion: its influence on adolescent identity status*
 11 D. Rockliff, *Fire retardant finishes for fibre art: a conservation perspective*

- 1215-1240 Music**
 Recital M. Schlosser, *Piano recital including works by Beethoven, Morawetz and Ravel*
 Poster 12 S. Babbal, R. Creighton and J. Bayley, *Music - The Inexhaustible Sea*

1240-1400 LUNCH BREAK

- 1405-1430 Comparative Literature**
 Paper A. Wiemer, *Feminist science fiction: the last enclave of Utopianism in twentieth-century fiction*
 Posters 13 M. Allemano, *The structure of the Medium is the Message: a comparative study of the historical vision in post-modernist fiction by Thomas Pynchon and Michel Tournier*
 14 K.Y. Jones, *"Fait AcCOMPLIT" - first edition of a critical and creative journal by graduate students of Comparative Literature*

- Library Science**
 Poster 15 S. Mowers, *Library/Information Science research: a representative overview*

- 1430-1455 Slavic and East European Studies**
 Paper A. Nahachewsky, *Social dance of Ukrainians on the Prairies*

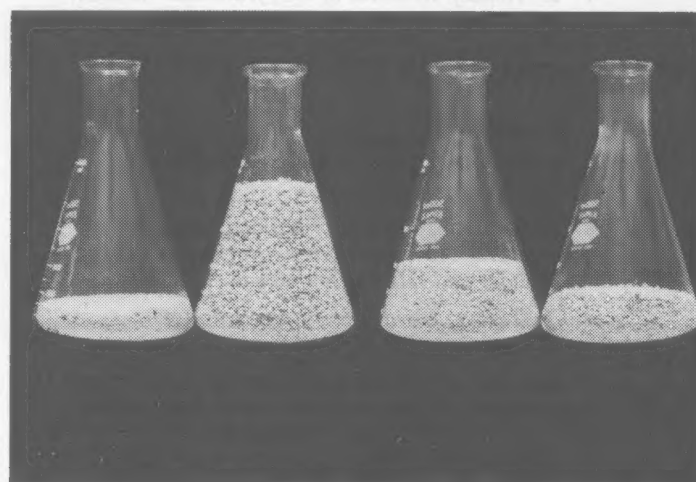
- 1455-1520 Romance Languages**
 Paper G. Monorchio, *The philosophy of duelling in XVI century Italy*
 Posters 16 L. Boschel, *Looking for puesto que*
 17 N. González-Ortega, *A parallel analysis of In Cold Blood and Chronicle of a Death Foretold*
 18 J. Hammond, *A comparison of the structure and use of "the dream" in works by G. de Nerval and A. Hébert*
 19 M. Wakefield, *Minor nobility in Molière's theatre*

1520-1530 COFFEE

- 1530-1555 Philosophy**
 Paper N. Shanks, *Quantum theory and reality, or who killed Schrödinger's cat?*
 Poster 20 B. Wiebe, *Moral Dilemmas*

- 1555-1620 History**
 Paper G. Ens, *The political economy of cultural interaction: the "private" trade on the Hudson Bay*
 Poster 21 P. Myers, *Current research in the History department*

- 1620-1635 English**
 Paper P. Kelly, *The Abbey Theatre: the world's first community theatre*



Theme III *Engineering, Physical,
Environmental and Earth Sciences*

March 6

**Paper
Time**

Department

0910-0935

Electrical Engineering

Paper

A.D. Hiebert, *Computer simulation of the electric preheat-steam drive bitumen recovery method for the Athabasca Oil Sands*

Poster

- 1 A. Nathan, *Integrated silicon magnetic field sensors*

0935-1000

Civil Engineering

Paper

K.P. Ratzlaff, *Behavior and ultimate strength of continuous steel plates subjected to uniform transverse loads*

Posters

- 2 B. O'Flynn, *Composite ice-resisting walls for Arctic offshore structures*
3 M. McGinley, *The interaction of masonry veneer and steel studs in curtain wall construction*

1000-1025

Mechanical Engineering

Paper

R. Narten, *Atmospheric Icing of structures*

Posters

- 4 J. Warkentin, *Determination of robot link parameters using a vision system*
5 W. Robertson, *Computer aided turbine balancing verified by a scale model*

1025-1050

Chemical Engineering

Paper

W. Cluett, *Adaptive strategies in process control - a survey*

Posters

- 6 W. Graham, *Investigation of resonant behavior in catalytic oxidation of carbon monoxide*
7 R. Tomcej, *Removal of CO₂ from sour natural gases*

1050-1100

COFFEE

1100-1125

Chemistry

Paper

J. Macaulay, *The chemistry of the Honey Mushroom*

Posters

- 8 E. Alvarado, *The conformational properties, including intramolecular hydrogen bonding, of maltose and related compounds*
9 T. Dubetz, *The origin of tailing in liquid chromatography on Polystyrene-DVB resin*
10 K.T. Hogan, *Towards the synthesis of Sterpuric acid, the causative agent in Silver Leaf Disease*
11 L.M. Pena-Rodriguez, *Biologically active metabolites of *Alternaria Brassicae*, the fungus responsible for "Black Spot" disease in Canola plants*

1125-1150

Physics

Paper

K. McGreer, *Phase transitions in solid helium below 20° K*

Posters

- 12 R. Gosselin, *Fast ion-beam spectroscopy*
13 P. Piercy, *Surface physics and desorption kinetics*

1150-1215

Mathematics

Paper

R. Sawatzky and B. Forrest, *A survey of some current research in mathematics*

Poster

- 14 R. Sawatzky, *Wave propagation in large blood vessels*

1215-1240

Computing Science

Paper

D. Makarenko, *Tools for VLSI design*

Poster

- 15 M. Dubetz, *Computer graphics*

1240-1400

LUNCH BREAK

1405-1430

Botany

Paper

S. Downie, *The effects of glaciation on plant distribution patterns in North America as shown by *Arnica frigida* and its relatives*

Posters

- 16 J. Shamess, *Successional patterns of algae and aquatic fungi*
17 B. Husband, *Nutritional requirements of an aquatic plant in three Albertan lakes*

1430-1455

Forest Science

Paper

K. Brown, *Reproductive ecology of tamarack in interior Alaska*

Posters

- 18 D. Dolsen, *Angler response to catch-and-release trout management*
19 J. Kenny, *Hybridization studies between the pSAc³ soybean actin gene and lodgepole pine*

1455-1520

Soil Science

Paper

C.P. Maule, *Soil moisture regimes of barley and fallow conditions at the Eilerslie research station*

Posters

- 20 C. Palylyk, *Landsat MSS digital data and peatland inventory*
21 G. Reichert, *Landsat MSS digital data and winter wheat inventory*

1520-1530

COFFEE

1530-1555

Geology

Paper

P. Metcalfe, *Volcanology of Quarternary centres in Wells Gray Provincial Park*

Poster

- 22 Q. Goodbody, *The Bird Fiord Formation: a spectrum of shallow shelf environments*

1555-1620

Geography

Paper

T. Stewart, *Glaciomarine sedimentation in Clements Markham Inlet, Ellesmere Island*

Posters

- 23 P. Farrington, *Long-term natural revegetation: the Canol Road*
24 J. Smith, *Polygon overlay processing*



uesday

thursday

friday

saturday

1

- Board of Governors
- Edmund Kemper Broadus Lecture
- Last day for receiving applications for admission to Spring Session 1985
- Until 2 March, Dance Motif '85

2

- Edmund Kemper Broadus Lecture

7

8

- Edmund Kemper Broadus Lecture

9

14

15

- Advanced registration in the 1985-86 Winter Session begins for continuing students in undergraduate programs

16

- Research Prize Award Night
- Until 21 March, Multicultural Expo

21

- Johann Sebastian Bach Day

22

23

28

29

- Last day for receiving registrations for Spring Session 1985

30

continued from page one

To his way of thinking, Edmontonians now have a love affair with LRT and "we recognize the fact that we have to get SLRT to the University quickly."

Current plans, developed via almost daily contact between the City's Civil Engineering Department and the University's Office of Utilities Planning and Construction, call for a new bridge to be built about 100 to 150 feet west of the High Level Bridge. The new bridge will have a double line for passing. Once across the bridge, the line would be constructed 25 metres below the surface from 89 Avenue to the Walter C. Mackenzie Health Sciences Centre following 114 Street. It will surface south of the University Avenue intersection and continue to the South Government Centre where it will give way to a major bus terminal.

Further extension to Southgate and Mill Woods or perhaps to the west will then be given serious consideration.

SLRT stations, the entrances to which will be determined after planning sessions with the appropriate University and University Hospitals personnel, will be built at 89 Avenue just north of the Education Centre (the station will be about 200 feet long) and opposite the Mackenzie Health Sciences Centre on 114 Street.

The line will be tunnelled through the greater campus area. The University Station will also be tunnelled; the Hospitals Station may be open cut. Disruption will be minimized as a result of the major portion of the work being "tunnelled."

Initial construction is scheduled to start at the end of 1985, reaching the campus by 1990 and the South Government Centre by 1993. City Council has approved a single line extension calling for the expenditure of \$140 million over the next 10 years (\$10 million annually as a base figure and as high as \$23 million in some years).

The work will be divided into three-year projects because the provincial government, which provides 75 per cent of the funding, commits money for three years at a time. In Mr. David's opinion, the City has taken a rational approach to its use of government grants in that construction will not outdistance funds available.

Why SLRT? It can effectively remove 35 buses from the University

core, buses that are contributing to the current congestion. Transportation of thousands of fans to football and hockey matches has demonstrated the effectiveness of LRT. The same effectiveness could be achieved on behalf of the University and the neighboring communities. An exclusive bus line, Mr. David said, can handle 5,000 riders per hour; LRT can accommodate 21,000 riders in an hour. Once the line is extended to the South Government Centre, SLRT can move up to 51,000 people per day.

Development of the line would also create a large number of construction-related jobs, the Mayor pointed out.

J.B. McQuitty, Associate Vice-President (Facilities and Services), expressed the University's willingness to continue to work closely with the City, a remark that President Horowitz took further by saying that a day doesn't go by without the University and the City interacting on some matter. "Mr. Mayor, I am with you on the development of LRT," Dr. Horowitz stated. He then suggested that some University satellite stations be developed. "If you have some parcels of land near any of your stations that you wish to donate to the University of Alberta...."

Dr. Horowitz was enthusiastic about the fact "we are now talking about a *below surface* line" and that former Vice-President (Facilities and Services) Ron Phillips sits on the advisory group that reports directly to city council's executive committee.

Dr. Horowitz's mood changed when he told of a proposal concerning changes to the 114 Street and University Avenue roadway that had reached his desk earlier in the week, without any prior consultation with University officials. The proposal as it stands would have the effect of cutting the green space at Corbett Hall in half. Mr. David responded by saying that the City has to put forward the best and cheapest proposal but that it is willing to compromise and to consult with all interested parties.

President's Report

Dr. Horowitz informed Senate that no accurate information on the 1985-86 operating grant from Alberta Advanced Education has been obtained. The budget will be presented in the Legislature on 25 March and "we will likely receive information just about

that time." The President added that a number of assumptions have to be made but it is hoped that these will be proven to be wrong. Budget directors have been coming forward with proposals for cuts for 1985-86.

Dr. Horowitz indicated that he was pleased with the progress of the PACCR reviews (about 15 departments are reviewed each year) and that final reports from each of the four long-range planning groups will be received within two months. A document will then be prepared and widely circulated. Following a discussion period of several weeks, recommendations will be shaped "in the usual way," the President said.

In referring to the creation of a joint subcommittee of the Planning and Priorities Committee and the Academic Development Committee, he said one of its tasks would be to develop recommendations with respect to the University's 1986-87 operating budget.

Honorary Degree Recipients

Chancellor Savaryn announced the honorary degree recipients for Spring Convocation. They are: Donald Clanin, Professor Emeritus of Poultry Nutrition at this University; the Rt. Hon. Joe Clark, former Prime Minister and current Minister of External Affairs; Sheila Egoff, internationally recognized teacher, lecturer, critic and author; Donald Harvie, Board Chairman and CEO, Devonian Group of Charitable Foundations; Alberta's new Lieutenant-Governor, Her Honour Helen Hunley; Mr. Justice D.C. McDonald; renowned sculptor, Leo Mol; Omeljan Pritsak, Director, Ukrainian Research Institute, Harvard University; Bernard Snell, former President, University of Alberta Hospitals; and Madame Justice Bertha Wilson.

New Members

Senators also welcomed five members who were appointed recently by the Minister of Advanced Education: Roman Woznura, School Superintendent, County of Lamont; Arlene Meldrum, an active member of the Edmonton Confederation of Community Leagues and a former President; Margaret

Gallo, interested in the role of seniors in our society; Lucien Drouin, former Editor of the *St. Paul Journal* and Director of the Mother Teresa Project; and Tony Koch, an Edmonton lawyer with Lieber and Koch.

Second Language Education

A recommendation, put forward as a motion by Harlan Hulleman, that French be recognized as a requirement for an academic high school diploma, generated much discussion. The lively debate continued after lunch with the motion eventually being tabled.

Other Business

Jo-Ann Creore and Tom Nelson addressed the meeting on behalf of the Chairmen's Council. They explained that there are approximately 85 chairmen on the Council and that the academic welfare of the University is their primary concern. Efforts are directed toward raising the profile of the University and increasing communication between it and the wider community.

The Council has a practice of inviting MLAs and government ministers and deputy ministers to campus to give them an opportunity to see what goes on in departments. An invitation to follow suit will be extended to Senators.

Relations with students and relations with the public of northern Alberta were also topics for discussion during the afternoon of 15 February. The Dean of Student Services, Peter Miller, gave a report of the development and current activities of his unit and its diverse elements. Following this presentation, the Senate separated into four groups and discussed how best to assist in strengthening the relationship between the University and the community. As a first step in giving renewed impetus to the Senate's continuing interest in this relationship, it was agreed to set up a standing committee on University/community relations.

The next meeting of Senate will take place on 26 April. The report of the Task Force on Ethics and the follow-up report of the Task Force on Mature Students will be heard at that time. □

Approach to Hepatitis B Study Meticulous

A survey is a way of collecting information, usually in the form of question and answer. It is an unusual survey that draws blood. But blood is what a doctor/nurse team are looking for in northern Canada.

Bryce Larke, with nurse-epidemiologist Glory Froese, is carrying out an unusually successful health study program under the auspices of the University's Boreal Institute for Northern Studies.

The purpose of the program, originally funded with \$350,000 from the Donnor Canadian Foundation, is twofold: to study the prevalence and patterns of transmission of hepatitis B in northern communities by taking blood samples from as many subjects as possible for later laboratory testing; and to provide data on which to base a vaccination program.

For many years hepatitis B, a virus disease of the liver, has been a health problem among people of the north. The infection may be severe or may not even be noticeable; but the virus stays permanently in a small number of cases. These people become carriers and spread the disease to others in their household and community.

In the past there was no way to stop the disease spreading. There were no laboratory tests to identify either hepatitis B carriers or those with hepatitis B antibodies; nor was there any vaccine against the disease. Recently, laboratory tests to discover the virus were developed; and in 1982 a hepatitis B vaccine was licensed for use in Canada. The vaccine is expensive, at about \$150 for a three-dose shot. Fortunately it is needed only by those at high risk: people sharing a household with a carrier or living in a community where many are infected. Protection of younger people and pregnant women is also important, since an infected mother can pass the disease to her baby at birth.

The success of the study program depends on the level of cooperation within each community. Many Indian and Inuit settlements, however, have been studied repeatedly in recent years, for a wide variety of reasons, without any tangible benefit to the native population.

The approach to these communities is, therefore, crucial—a fact understood by Robbie Jamieson, Director of the Boreal Institute for Northern

Studies since 1969.

Mr. Jamieson, with Dr. Larke, and with representatives of the Northwest Territories and federal governments, developed an approach that is outstandingly successful. The key is information: every level of the population is told of the purpose of the study and an undertaking is made to each community that they will also be told the results.

Before Dr. Larke and Nurse Froese visit a region, links are constructed one by one in a chain of communication that stretches to the furthest communities.

The minister of health for the Northwest Territories writes to mayors and settlement chairmen, band chiefs and heads of communities, informing them of the project and its importance, and stressing the integrity of Larke and his team. This letter is co-signed by their MLA.

A senior officer of Health and Welfare Canada writes similarly to the principal executive officer in the region.

Dr. Larke calls the regional superintendent for the department of education and the chief nursing officer of the region, through whom much information reaches the community. At Dr. Larke's invitation, the department of education and local education authorities agreed to participate. Since a key element of the program is that no child may give a blood sample without parents' permission, this simplifies distribution of consent forms.

Wording and distribution of the forms, translated into native languages where necessary, are agreed, then mailed to the school principals, who also receive a letter from the NWT deputy minister of health.

And finally, since air travel in the north is uncertain to say the least, before the plane takes off Dr. Larke makes several more calls—to the nurse, and the teacher, for instance—to confirm that he and Nurse Froese are on their way.

Extensive use is made of local radio stations and community CBC broadcasts, and on arrival, Larke goes on the air with a simple message through a translator.

The last links in the communication chain are made when Dr. Larke visits each school class and in very simple words, sometimes using a translator

and sometimes not, explains why he is there and what he is going to do.

"The cooperation and participation from the schools has been outstanding," he reports. "That more than 90 percent of the children bring back signed consent forms is a tribute to the profile schools have in the north, and that attitude is a major benefit to us."

A 40 percent participation rate was anticipated when this study program was launched. In many communities it is achieving a participation rate of well over 60 percent.

Success brings its own headaches, chief of which was lack of funds to complete the project on a much larger scale than anticipated.

However, at the request of Northwest Territories Minister of Health

Bruce A. McLaughlin, Mr. Jamieson and Dr. Larke put together a budget proposal to enable completion of the study. In late 1984, the Legislative Assembly approved a further grant of \$101,000. Mr. McLaughlin, in a letter of commendation, writes that "(Dr. Larke's) conduct throughout has been a true example of how research in the north should be carried out."

When completed, the study will have sampled nearly twice the number of people anticipated, and will have extensive data on which to base vaccination recommendations.

As Mr. Jamieson sees it, the right approach has been the key to success.*□

* Reprinted from Research Report, Winter 1984-85.

Bruce Kidd a Man of Many Talents

Bruce Kidd, the winner of gold and bronze medals at the 1962 British Commonwealth Games and a member of the 1964 Olympic Team, will speak on "The Promise of the Calgary Olympics" on 14 March. The public lecture, sponsored by the Department of Physical Education and Sport Studies, will start at 7:30 p.m. in E-120 Physical Education Centre.

A Distinguished Visitor to the department and the Faculty of Physical Education and Recreation, Mr. Kidd holds many credits in athletics. The 1961 winner of the prestigious Lou Marsh Trophy, he was also named Athlete of the Year by Canadian Press in 1961 and 1962, and was elected to Canada's Sports Hall of Fame in 1968.

Mr. Kidd excels not only in sports, but in the academic and business worlds as well. He received his BA (Honors) in Political Economy from the University of Toronto in 1965; his AM in Adult Education from the University of Chicago in 1968, and his MA in History from York University in 1980. He was the winner of the Bruels Gold medal in Political Economy in 1965, the Kellogg Fellowship in Continuing Education in 1967, and the Ford Foundation Doctoral Scholarship in 1968.

He has been a lecturer at the Uni-

versities of Toronto, York and Rajasthan (Jaipur, India); Assistant and Associate Professor at the University of Toronto; a reporter for radio station CFRB (Toronto), and the *Toronto Sun*; a research officer for the Department of National Health and Welfare in Ottawa, a community programs officer for the Ontario department of education, director of the Neighborhood Advisory Board Training Program in the Centre for Continuing Education, University of Chicago; and executive assistant and research officer, and secretary of the Treasury Board, Committee on Government Productivity for the Government of Ontario in Queen's Park.

His books and monographs include *The Political Economy of Sport*, *Tom Longboat, Athletes' Rights in Canada*, and *Proceedings of the 5th Canadian Symposium on the History of Sport and Physical Education*. He has also written a large number of book reviews, articles, radio scripts and a play. He is also a well-travelled public lecturer, has attended and conducted numerous conferences and clinics, and is an extremely active member of scientific and professional societies and community services.

He will be giving a series of lectures within the department during his stay which terminates 15 March.□

people

Edward Mozejko (Comparative Literature) recently presented a lecture on Jaroslav Seifert, the Czech Nobel Prize winner for Literature in 1984, at the University of Calgary. The lecture, "Between Dream and Reality: The Poetry of Jaroslav Seifert," was the first in an annual series on Nobelists in Literature, sponsored by the University of Calgary's Faculty of Humanities.

service information

All information to be included in this column must reach the Office of Community Relations by 9 a.m. the Thursday prior to publication.

Coming Events

Lectures and Seminars

Entomology

28 February, 4 p.m. Daryl Williams, "Sathon, Lathrapanteles, Female Genitalia, and Microgastrine Classification." TBW1 Tory Breezeway.

Boreal Institute

1 March, noon. Ed Telfer, Canadian Wildlife Service, will comment and lead a discussion of the film "Of Moose and Man." A preview of a new film on management of moose harvest in northern Ontario. M-137 Biological Sciences Building.

Medicine

1 March, noon. G. Holland, "Denervation and Renervation After Oral Surgical Procedures." S.M.R.I. Conference Room.

Business

1 March, noon. Gerald MacLaughlan, President and Chief Executive Officer, Canadian Commercial Bank, "The Financial Services Revolution." Dean's-MBAA Forum Luncheon, Stollery Executive Development Centre. Tickets (\$5) available from Rosemary Hindle, 432-2348.

4 March, 6:15 p.m. Dean's-MBAA Forum Dinner. Speaker: The Hon. Peter Lougheed. Tickets (\$15) available from Rosemary Hindle, 432-2348. Four Seasons Hotel.

5 to 8 March. Executive-in-Residence. A.F. (Chip) Collins, Special Advisor to the Provincial Treasurer.

8 March, 7:30 p.m. Sheila Wynn, Director, Alberta Women's Secretariat, "The Challenge of Developing a Provincial Women's Policy." MPM Society "Dialogue" Series. Faculty of Business, 4th floor lounge.

Physics

1 March, 2 p.m. W.J.L. Buyers, Atomic Energy of Canada Ltd., Chalk River, Ontario, "Heavy-Fermion Ground States and Superconductivity." V-121 Physics Building.

Ring House Gallery

1 March, 3:30 p.m. Tetsuya Noda, Japanese Print Artist, "Contemporary Japanese Prints." L-1 Humanities Centre.

Zoology

1 March, 3:30 p.m. E. Zouros, Department of Biology, Dalhousie University, "Asymmetrical Hybrid Sterility and Implications for Speciation." 345 Earth Sciences Building

Edmund Kemper Broadus Lectures

1, 4, 6 and 8 March, 4 p.m. Juliet McMaster, "The Visible World of Charles Dickens." L-3 Humanities Centre.

Plant Science

4 March, 1 p.m. Leonie Nadeau, "Why Some Deciduous Tree Species Do Not Shed All Their Leaves in Autumn." I-06 Agriculture-Forestry Centre.

6 March, 1 p.m. Gerald Ivanochko, "Propagation of Potato Using True Potato Seed." I-06 Agriculture-Forestry Centre.

History

4 March, 3:05 p.m. Linda Colley, "Whose Nation? Class and National Consciousness in Britain 1750-1830." 2-58 Tory Building.

8 March, 3:05 p.m. Wesley Wark, "The Finest of its Kind in the World: The British Intelligence System and the German Threat, 1933-1939." 2-58 Tory Building.

Soil Science

5 March, 12:30 p.m. L. Wetter, "Improvement of Solonchic Soils: A Comparison of Eastern European and Canadian Approaches." I-103 Tory Building.

Music

5 March, 2 p.m. John Armstrong, "Rhythmic Pulse in Beethoven's Op. 2 No. 1, and Brahms' Op. 119 No. 2." 1-29 Fine Arts Building.

Mathematics

5 March, 3 p.m. Miklos Farkas, Budapest University of Technology, "Stable Oscillations in a Predator-Prey Model with Time Lag II." 657 CAB.

Anatomy

5 March, 4 p.m. John E. Pauly, Vice-Chancellor for Academic Affairs and Sponsored Research and Associate Dean of the Graduate School, University of Arkansas for Medical Sciences, "Chronobiology: Principles and Applications." Sponsored by the Alberta Heritage Foundation for Medical Research. 6-28 Medical Sciences Building.

Clothing and Textiles

5 March, 7 p.m. Anne Kernalguen, "Hats: Design and Shaping." This seminar will focus on hats within the Historic Costume Collection and the

various techniques which can be used to design and shape hats. There will be a registration fee of \$20 and early registration is encouraged. For further information or registration, telephone 432-2528. Home Economics Building.

Sociology

6 March, noon. E. Solomon, "Kept Women: A Study in Informal Social Control." 5-15 Tory Building.

Forestry

6 March, noon. Greg Lee, "Allozyme Analysis of Lodgepole Pine Along Elevational Transects in Alberta." 3-1 Mechanical Engineering Building.

Botany

6 March, 4 p.m. Chris Miller, "Dynamics of a Bryophyte Gradient in Rich Fens." M-137 Biological Sciences Building

International Students

6 March, 7 p.m. Gordon Peacock, "Fine Arts View." A series of seminars on Canada. International Students' Centre, 11023 90 Avenue.

English

7 March, 12:30 p.m. Poet Glen Sorestad will read from his work. L-3 Humanities Centre.

Germanic Languages

7 March, 7:30 p.m. Harald Naess, University of Wisconsin, "A Hippie from Norway: Knut Hamsun's Last Novel." Arts 17.

8 March, 2 p.m. Harald Naess, "Growth of the Soil: Defending an Old Reading." 2-05 Business Building.

African Association of Alberta

7 March, 6 p.m. "Development and Underdevelopment in Africa." Seminar topics include "Language and Development in Africa," "The World of the Contemporary African Writer," and "Integrated Farming." Sponsored in conjunction with the International Students' Centre. 1-09 Business Building.

Faculté Saint-Jean

Le 7 mars, à 20h00. Conférence de Gilles Martel, Université de Sherbrooke, "Les écrits de Louis Riel." Salon des étudiants, Faculté Saint-Jean, 8406 91 rue (468-1254).

Geography

8 March, 10 a.m. Andrew M. Kirby, University of Colorado, "The Space Economy Concept." 3-36 Tory Building.

Comparative Literature

8 March, 3:15 p.m. Milan V. Dimić, "Comparative Literature in Canada: The History and the Present State of the Discipline." Senate Chamber, Arts Building.

Alberta Heritage Foundation for Medical Research

8 March, 3:30 p.m. John E. Phillips, Professor of Zoology, University of British Columbia, "Cellular Actions of a Novel Insect Neurohormone in Control of Ion and Water Balance." 345 Earth Sciences Building.

Women's Program, Faculty of Extension

8 March, 7:30 p.m. Margrit Eichler, Distinguished Visiting Professor, "Women's Paid and Unpaid Work and Equality in Employment." 2-115 Education North.

Law and Secondary Education

22 March. A conference on "Minority Language Education Rights and the Constitution." Advanced registration required by 15 March. For further information, call the conference committee at 432-5723 or 432-3676. Hotel Chateau Lacombe.

Music

Department of Music

9 March, 8 p.m. A recital of vocal, instrumental, multi-media and electronic music by composer Sherilyn Fritz. Several world premières will be presented. Convocation Hall.

Exhibitions

Ring House Gallery

Until 3 March. "Stones of Matera." A photographic study by Augusto Viggiano of an ancient dwelling site in Italy.

1 March to 14 April. "Contemporary Japanese Prints." An exhibition consisting of 80 prints produced since 1954 by 40 leading Japanese artists. 7 March to 21 April. "The Second Link: Viewpoints on Video in the Eighties." An international travelling video art show.

Radio and Television

Radio

All programs broadcast on CKUA radio 580 AM and 94.9 FM.

2 March, 7 p.m. "University Concert Hall."

Television

All programs broadcast on Shaw-22 and QCTV-19.

6 March, 7:30 p.m. "Canada, the World and the Future: Why Do Children Have to Die?" Judy McTavish, Department of Pediatrics, Cross Cancer Institute.

6 March, 8 p.m. "Birth Control: Your Choice." To show, through discussion, the many varied opinions on and methods of birth control.

Sports

Basketball

1 and 2 March. CWUAA Playoffs. Varsity Gym.

Matters of Faith

Catholic Campus Ministry

St. Joseph's College Mass Time, September to April. Monday, Wednesday, Friday - 7:30 a.m., 12:10 and 4:30 p.m.; Tuesday, Thursday - 7:30 a.m., 12:30 and 4:30 p.m.; Saturday, 4:30 p.m.; Sunday - 9:30 and 11 a.m., 4 and 8 p.m. 6, 13, 20 March, 7:30 p.m. Shirleyan Threndyle, The Catholic and the Bible—"Introduction to Sacred Scripture." St. Joseph's College. Ashes to Easter—shared prayer and faith discussion, Tuesdays (until 26 March) or Thursdays (28 February to 28 March), 7 to 9 p.m. St. Joseph's College, Faculty Lounge. Call Marcia at 433-2275 to register.

Anglican - United Chaplaincy

Bible Study on Gospel of John—Tuesday noon; Anglican Eucharist—Thursday noon. Both events in Meditation Room, 158A SUB.

Lutheran Campus Ministry

Sunday Worship with Eucharist - 10:30 a.m., Meditation Room.
Thursday Evening Worship - 7:30 p.m., Lutheran Student Centre, 11122 86 Avenue.
Noon Hour Bible Study - Wednesdays at noon, Meditation Room.

Faith Share

Mondays, 7 to 9 p.m. Group singing, sharing, teachings and discussions. All welcome. Contact Kim, 436-6346, or Curt, 433-9377, for further information. St. Joseph's Chapel.

Theatre

SUB Theatre

1 and 2 March, 8 p.m. "Orchesis, the U of A Creative Dance Club." Tickets available from members and the S.U. Box office. For more information, call 432-5602.

Films

6 March, noon. "In Search of Bach." A 60-minute documentary centred on a two-week Bach Aria Festival at the State University of New York at Stony Brook. It features "moving performances and informal conversations about the depth and delight of Bach's music."

Studio Theatre

7 to 29 March. "Dreaming and Duelling." Tickets available from the Studio Theatre Box Office, 3-146 Fine Arts Building. For further information, telephone 432-2495.

Théâtre Français d'Edmonton

9 and 10 March, 8 p.m. "The Stragglers" (Les Oubliés) by Eric Martin—translation by Guy Parisseau. Call 469-0829 for further details. Tickets available at the office and at the door.

Non-Credit Courses

Computing Services

MTS (Michigan Terminal System)

MTS and Editor Fundamentals (Prerequisite)
AJ510 Operation and Visual Editing (Prerequisite)
MTS Overview (Prerequisite)

TEXTFORM

Introduction to Text Formatting (Prerequisite)

SPIRES

Introduction to SPIRES (Prerequisite)
Advanced SPIRES

Graphics

Integrated Graphics Overview (IG)

Statistics

Data Preparation for Statistical Packages (Prerequisite)
Introduction to SPSSx
SPSSx Conversion
Introduction to BMDP
Introduction to MIDAS
Introduction to MINITAB
Introduction to TROLL

Microcomputers

Introduction to the IBM PC
Introduction to the Personal Editor
Introduction to MultiMate
Advanced MultiMate
The above courses are offered regularly through the day with limited evening selections. Registration will be taken over the phone for all courses except evening courses. These may be made in person at 352 General Services Building, or by mail. Payment must accompany registration for all evening courses. Please make cheques payable to the University of Alberta.

Waiting List Courses

The following courses are only offered when a sufficient number of people express an interest.
Advanced Text Formatting
Courier Operation and Visual Editing
Introduction to Plotting
Introduction to Programming
Introduction to Typesetting
Introduction to APL
Introduction to the Array Processor
Introduction to APAL
Introduction to Clustan
Introduction to TSP
Introduction to Osiris
Introduction to Tell-A-Graf
For more information on any of the courses listed above, telephone the Training Coordinator at 432-2511, between 8 a.m. and 4 p.m., weekdays.

Faculty of Extension

Certificate Programmes

For further information on the programmes listed below, telephone 432-5545 or 432-3027 between 8:30 a.m. and 4:30 p.m., Monday to Friday.
Management Development
Personnel Administration
Computers and Business Data Processing
Industrial Security Management
Purchasing Management Development
Applied Land Use Planning Certificate Programme
Public Administration Certificate (432-5052)

Citation Programme

For further information on the following programmes, telephone the number listed behind the course.
Executive Development Programme for Women (432-5545 or 432-3027)
Supervisory Development Programme (432-5066)

Land Use Planning Studies

For further information on the courses listed below, telephone 432-2912.
Regional Planning
Plans and Processes
Survey and Analysis (Field Trip)

Industrial Courses

For further information on the courses listed below, telephone 432-2912.
Corrosion Control in Steam Systems
Maintenance Management

PLATO Learning Centre

"Computer-Taught" courses can be taken any time at your convenience. For further information on this unique way of learning, telephone 432-2444.
Introduction—Keyboarding, Word Processing
Excellence in Administrative Assistant/Secretarial Work

Introduction—Computers, Data Processing
Introduction to Programming—BASIC, PASCAL, FORTRAN
Time—Resource, Financial or Planning Management

Business and Professional

For further information on the courses listed below, call 432-5066. (University employees are eligible for a 25% discount on the following courses/seminars.)
Effective Speaking for Business and Professional People
Personnel Skills: An Overview
The Psychology of Closing Sales
Stocks, Bonds and Other Investments
Effective Sales Management

Real Estate

For further information on the Winter/Spring course offerings, telephone 432-5060.
Solving the Mysteries of Home Mortgage Finance
Should I Buy This House?
Home Foreclosure Consequences
Residential Landlords and Tenants: An Introduction to the Law

Applied Behavioral Sciences Division

For further information on courses listed below, telephone 432-5069.
Effective Counselling
Introduction to Supervision
Coping with Loss
Relationship Enhancement
Breathing for Health, Relaxation and Vitality

Devonian Botanic Garden

For a detailed brochure and registration form, telephone 987-3054.
The Home Vegetable Garden
Houseplants—Management, Propagation and Disease Prevention
Residential Landscape Design—Urban, Suburban
Moose Hair Tufting
Ski the DBG III

Notices

John W. Scott Library Hours

Beginning Saturday, 2 March, and continuing until and including Saturday, 4 May, the John W. Scott Health Sciences Library will be open until 9 p.m. on Saturday. Circulation services will still cease at 5 p.m. The extension of Saturday hours is on a trial basis and Library use will be monitored.

Rutherford House Closed

Rutherford House Provincial Historic Site will be closed for restoration work from 4 to 22 March. The House will reopen to the public Saturday, 23 March.

Call for Proposals

Proposals in the form of one-page abstracts are still being accepted for the Fourth International Human Science Research Conference. The conference, sponsored by the Faculty of Education, will take place 21 to 25 May. Delegates will share and examine examples of human science research, discuss questions and issues pertaining to different aspects of the research, and explore ways in which institutional life, policies and structures can be supportive of human science research in education, psychology, philosophy and in the other social sciences and humanities.

The conference coordinator is Max van Manen, Department of Secondary Education, 432-5861.

Faculty Bonspiel

The Annual University of Alberta Bonspiel hosted by the Faculty Curling Club will be held 23 and 24 March at the Derrick Curling Club, 3500 119 Street. There will be prizes in all three events; the entry fee is \$60 per team.

Staff and students are invited to curl. To register, write to Greg Morrison, Department of Anatomy, or call Greg or Al at 432-3739.

Positions Vacant

The University of Alberta is an equal opportunity employer but, in accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

Engineering Reference Librarian

The University of Alberta Library invites applications for an Engineering Reference Librarian in the Science and Technology Area Library. Major duties include reference assistance with an emphasis on engineering. Qualifications required include a degree in Library Science in addition to a degree in Engineering or Sciences. Experience in reference assistance, including computer searching and a reading knowledge of Russian or another foreign language, is highly desirable.

The successful candidate will report to the Science and Technology Reference Coordinator and will be appointed at the Librarian I level with a salary range of \$24,116 to \$30,654.

Applicants should send curriculum vitae, transcripts of academic record and the names of three references to Peter Freeman, Chief Librarian, University of Alberta, Edmonton, Alberta T6G 2J8. Closing date is 15 March 1985.

Senior Instructor, Department of Elementary Education

The Department of Elementary Education is seeking a senior instructor for Spring Session 1985 to teach Ed CI 533 Special Seminar: Play as Curriculum Medium, 3 to 21 June 1985.

Qualifications should include: intensive cross-sectional research on play experiences; experience in implementing play-based curriculum in programs for young children; work with in-service and pre-service teachers on the uses of play as a teaching strategy; preparation of print and visual materials related to play that can be used in teacher education institutions.

Responsibilities for instruction include the coordination of relevant laboratory experiences in a school setting. Salary at the professor level is \$2,539.

Closing date for accepting applications is 15 March 1985.

Non-Academic Positions

The non-academic hiring freeze has been partially lifted effective 12 February 1985.

Until 31 March 1985, only current non-academic, operating funded employees and layed-off staff, subject to recall, may be considered for regular appointment on these posted vacant positions (). Other applicants may be considered for appointment on a Term basis only to 31 March 1985.*

Trust/Research funded positions are exempt from hiring freeze policies.

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. Due to publication lead time and the fact that positions are filled on an on-going basis, these vacancies cannot be guaranteed beyond 22 February 1985. For a more up-to-date listing, please consult the weekly *Employment Opportunities Bulletin* and/or the postings in *PSSR*.

Positions available as of 22 February 1985.

Clerk Steno III (Part-Time/Trust) (\$647-\$813) Biochemistry
Clerk Steno III (Term) (\$1,294-\$1,625) Extension
*Clerk Steno III (\$1,294-\$1,625) Student Counselling Services
Admissions Records Clerk (Trust) (\$1,294-\$1,625) Medicine
Administrative Clerk (Term) (\$1,442-\$1,842) Extension
*Departmental/Executive Secretary (\$1,625-\$2,092) Nursing
Technician I (Trust/Term) (\$1,497-\$1,920) Medicine
Biochemistry Technologist I (Trust) (\$1,697-\$2,182) Cancer Research Group
Technician II (Trust/Term) (\$1,697-\$2,182) Medicine
Editorial Assistant (Trust) (\$1,766-\$2,280) Medicine—Scientific Affairs
Programmer Analyst I (Trust) (\$1,842-\$2,378) Educational Research Services
Programmer Analyst I (Trust) (\$1,842-\$2,378) Educational Research Services
*Technician III (Term) (\$1,920-\$2,486) Pharmacology

For vacant library positions, please contact the Library Personnel Office, Basement, Cameron Library, telephone 432-3339.

Advertisements

Advertisements must reach the Editor by 3 p.m. on the Thursday prior to publication date which date also serves as the deadline for cancellation of advertisements. The cost of placing advertisements is

30 cents per word with no discount for subsequent insertions. There is a maximum limit of 30 words and a minimum charge of \$1.50. Contributors' corrections will be assessed at \$1.50 for each line in which an insertion is made. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission.

Accommodations available

Rent - Sabbatical house, four bedrooms plus study plus two bedrooms in basement. Belgravia (1 km from campus), August 1985-July 1986. 432-3637, 436-2627.

Rent - Park Towers, 9908 114 St. Stunning view, all amenities, best location. \$600. 488-7591 or 482-2010.

Sale - Just listed, Windsor Park, \$89,500, one-bedroom bungalow. Two bedrooms in basement. Newer, double garage. 55x150' lot. Call John Templeton, Re/Max Real Estate, 438-1575.

For sale - Lot in luxury development, 1 km east of Jasper Park gate. Gas, electricity, cable T.V., sewer. Spectacular view. 433-5939 after 6 p.m.

For sale - Immaculate, Parkallen home. Hardwood floors. Three, large bedrooms. Newer garage. \$75,000. Call Agnes Fisher, ReMax Realty, 438-1575, 434-4080.

Sale - Belgravia, traditional, two-storey, prime location. Classic styling. Asking \$134,900. Sale - Martin Estates, two-bedroom bungalow. Self contained, basement suite. \$69,900. Call Pat Anholt, Maggie Woytkiw, Re/Max Realty, 438-1575.

For rent - Older home, two bedrooms. River lot on Cameron Ave. 484-5421.

For rent - April first, opposite Corbett Hall, modern side duplex. Two bedrooms, all appliances, attached garage, fenced, south yard, Phone 436-1873.

Accommodations wanted

Visiting British academic requires a furnished house or apartment for the month of July 1985. Contact T.A. Marsland, Computing Science. 432-3971.

Professional woman, 29, seeks shared accommodation for 6-8 months, beginning March, or will house-sit. Prefer radius of three miles from University. Mary, 645-6313.

Goods for sale

Rent to own, new Royal electronic typewriters or purchase used electrics at Mark 9, HUB Mall, 432-7936.

Fresh Alberta lamb. Cut and wrapped, \$2.50/pound. 436-9238.

World Book Encyclopedia, 1984 edition, on sale until end March. 432-2942, 435-6876.

Attention Inuit art enthusiasts. Early Kenoiuak print of wolves and birds. 998-7581.

Services

Donnic Word Processing. Specializing in theses, manuscripts, etc. 8315A 105 St. 432-1419.

Singing teacher, Eileen Turner, 439-4661.

Quaker worship, Sundays, 11 a.m. Sorooptimist Room, YWCA, 100 Ave. 103 St.

Professional typist - Word processing. Specializing in theses and dissertations. Gwen, 467-9064.

Ecole Grandin offers Catholic education and strong French immersion program with academic emphasis, in downtown area. Also: Pre- and after-school care, French immersion pre-kindergarten. Close to University. 482-3676.

MTS Textformatted typing in all sciences (formulas) and medicine. For humanities and literature in: English, French, German, Italian, Spanish, Latin and Greek. Gabriella, 432-4144.

Thesis special - Word processing, \$15/hour. City Secretarial Service. 432-0138.

Professional seamstress and tailors. Made to order garments. General alterations. 469-6292, consultant Phil.

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